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1 [DLFM: a transactional resource manager](#)
[Hui-L Hsiac, Inderpal Narang](#)

 June 2000 **SIGMOD '00**: Proceedings of the 2000 ACM SIGMOD international conference on Management of data

Publisher: ACM [Request Permissions](#)

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 Additional Information: [full citation](#), [abstract](#),

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The DataLinks technology developed at IBM Almaden Research Center introduces a new data type called DATALINK for a database to reference to the database. An external file is put under ...

Also published in:

 June 2000 **SIGMOD Record** Volume 29 Issue 2

2 [Computation & communication in R: a distributed database manager](#)
[Bruce G. Lindsay, Laura M. Haas, Paul F. Wilms, Robert A. Yost](#)

 December 1983 **SOSP '83**: Proceedings of the ninth ACM symposium on Operating systems principles

Publisher: ACM [Request Permissions](#)

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R* is an experimental prototype distributed database management system that performs a sequence of multisite user transactions in R* is structured as over virtual circuit communication ...

Also published in:

 December 1983 **SIGOPS Operating Systems Review** Volume 17 Issue 5

3 [Transactional publish/subscribe: the proactive multicast of database updates](#)
[Arvola Chan](#)

 June 1998 **SIGMOD '98**: Proceedings of the 1998 ACM SIGMOD international conference on Management of data

Publisher: ACM [Request Permissions](#)

 Full text available: [Pdf](#) (106.55 KB)

 Additional Information: [full citation](#), [abstract](#),

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form of push technology — to build flexible, real-time loosely-coupled d
Publish/Subscribe is used by 300 of the ...

Keywords: event-driven, guaranteed delivery, multicast, publish.subscr
addressing, transactionally guaranteed delivery

Also published in:

June 1998 **SIGMOD Record** Volume 27 Issue 2

4 [A new approach to developing and implementing eager database re](#)

 Bettina Kemme, Gustavo Alonso

September 2000 **Transactions on Database Systems (TODS)** , Volume 25 |

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (449.43 KB)


Additional Information: [full citation](#), [abstract](#),

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 226, Citatic

Database replication is traditionally seen as a way to increase the availa
distributed databases. Although a large number of protocols providing d
have been proposed, few of these ideas have ...

Keywords: database replication, fault-tolerance, group communication
serializability, replica control, total error multicast

5 [OLTP through the looking glass, and what we found there](#)

 Stavros Harizopoulos, Daniel J. Abadi, Samuel Madden, Michael Stonebrake

June 2008 **SIGMOD '08: Proceedings of the 2008 ACM SIGMOD internati**
data

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (308.68 KB)

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Bibliometrics: Downloads (6 Weeks): 36, Downloads (12 Months): 418, Citatic

Online Transaction Processing (OLTP) databases include a suite of featu
heap files, locking-based concurrency control, support for multi-threadad
computer technology of the late 1970's. Advances ...

Keywords: dbms architecture, main memory transaction processing, o

6 [H-store: a high-performance, distributed main memory transaction pr](#)

Robert Kaliman, Hideaki Kimura, Jonathan Natkins, Andrew Pavio, Alexand

C. Jones, Samuel Madden, Michael Stonebraker, Yang Zhang, John Hugg, I

August 2008 **Proceedings of the VLDB Endowment** , Volume 1 Issue 2


Publisher: VLDB Endowment

Full text available:  Pdf (504.31 KB)

Additional Information: [full citation](#), [abstract](#),





Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 71, Citator

Our previous work has shown that architectural and application shifts h
databases increasingly falling short of optimal performance [10]. In par
cores, the abundance of main memory, the ...




- 7 [An integrated approach to recovery and high availability in an update](#)
 Edmond Lau, Samuel Madden
 September 2006 **VLDB '06: Proceedings of the 32nd international conference**
Publisher: VLDB Endowment
 Full text available:  Pdf (669.84 KB) Additional Information: [full citation](#), [abstract](#),

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 179, Citations

Any highly available data warehouse will use some form of data replication. In this paper, we demonstrate that we can leverage this data redundancy for recovery and high availability. Our approach, ...

- 8 [Computing curricula 2001](#)
 CORPORATE The Joint Task Force on Computing Curricula
 September 2001 **Journal on Educational Resources in Computing (JER)**
Publisher: ACM  [Request Permissions](#)
 Full text available:  Html (2.78 KB),  Pdf (613.63 KB) Additional Information: [full citation](#)




Bibliometrics: Downloads (6 Weeks): 105, Downloads (12 Months): 1146, Citations

- 9 [MIDDLE-R: Consistent database replication at the middleware level](#)
 Marta Patiño-Martínez, Ricardo Jiménez-Peris, Bettina Kemme, Gustavo Alonso
 November 2005 **Transactions on Computer Systems (TOCS)**, Volume 23 Issue 4
Publisher: ACM  [Request Permissions](#)
 Full text available:  Pdf (1.81 MB) Additional Information: [full citation](#), [abstract](#),




Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 126, Citations

The widespread use of clusters and Web farms has increased the importance of this article, we show how to implement consistent and scalable data replication this by combining transactional concurrency ...

Keywords: Database replication, eager data replication, middleware, scalability




- 10 [Communications of the ACM: Volume 51 Issue 7](#)
 July 2008 Communications of the ACM
Publisher: ACM
 Full text available:  Digital Edition,  Pdf (6.54 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 3440, Downloads (12 Months): 6437, Citations


- 11 [Transaction support for indexed summary views](#)
 Goetz Graefe, Michael Zwillig
 June 2004 **SIGMOD '04: Proceedings of the 2004 ACM SIGMOD international conference on database management systems**
Publisher: ACM  [Request Permissions](#)
 Full text available:  Pdf (168.70 KB) Additional Information: [full citation](#), [abstract](#),

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 47, Citations


Materialized views have become a standard technique for performance improvement in databases and for a variety of monitoring purposes. In order to avoid inconsistent query results, materialized views and their maintenance ...

12 [Queue: Volume 6 Issue 3](#) May 2008 [Queue](#)**Publisher:** ACMFull text available:  [Digital Edition](#) ,  Pdf (5.56 MB) Additional Information: [full citation](#)**Bibliometrics:** Downloads (6 Weeks): 62, Downloads (12 Months): 649, Citations**13** [The end of an architectural era: \(it's time for a complete rewrite\)](#)[Michael Stonebraker](#), [Samuel Madden](#), [Daniel J. Abadi](#), [Stavros Harizopoulos](#)
September 2007 **VLDB '07**: Proceedings of the 33rd international conference**Publisher:** VLDB EndowmentFull text available:  Pdf (445.58 KB) Additional Information: [full citation](#), [abstract](#),**Bibliometrics:** Downloads (6 Weeks): 32, Downloads (12 Months): 257, Citations

In previous papers [SC05, SBC+ 07], some of us predicted the end of "c
relational DBMS paradigm. These papers presented reasons and experir
the major RDBMS vendors can be outperformed by ...

14 [Recovery guarantees for Internet applications](#) [Roger Barga](#), [David Lomet](#), [German Shegalov](#), [Gerhard Weikum](#)August 2004 **Transactions on Internet Technology (TOIT)** , Volume 4 Issue**Publisher:** ACM  [Request Permissions](#)Full text available:  Pdf (997.52 KB) Additional Information: [full citation](#), [abstract](#),**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 147, Citations

Internet-based e-services require application developers to deal explicit
software components, for example web servers, servlets, browser sessi
application programming, and may expose ...


Keywords: Exactly-once execution, application recovery, communicati**15** [Transactional collection classes](#) [Brian D. Carlstrom](#), [Austen McDonald](#), [Michael Carbin](#), [Christos Kozyrakis](#), [I](#)March 2007 **PPoPP '07**: Proceedings of the 12th ACM SIGPLAN symposium
parallel programming**Publisher:** ACM  [Request Permissions](#)Full text available:  Pdf (256.98 KB) Additional Information: [full citation](#), [abstract](#),**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 61, Citations

While parallel programmers find it easier to reason about large atomic r
exclusion-based primitives for synchronization force them to interleave
performance. Transactional memory promises ...

Keywords: Java, collection classes, multiprocessor architecture, transa**16** [Consistent and scalable cache replication for multi-tier J2EE applica](#)[Francisco Perez-Sorrosal](#), [Marta Patiño-Martínez](#), [Ricardo Jimenez-Peris](#), [Be](#)
November 2007 **Middleware '07**: Proceedings of the ACM/IFIP/USENIX 200

Middleware

Publisher: Springer-Verlag New York, Inc.

Full text available:  Pdf (8.29 MB)

Additional Information: [full citation](#), [abstract](#),

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 24, Citation

Data centers are the most critical infrastructure of companies demanding quality of service (QoS) in terms of availability and scalability. At the core architectures providing service to applications. ...

Keywords: caching, fault-tolerance, reliability, replication, scalability of

17 [Concurrency control in hierarchical multidatabase systems](#)

Sharad Mehrotra, Henry F. Korth, Avi Silberschatz

May 1997 **The VLDB Journal — The International Journal on Very Large Databases**

Publisher: Springer-Verlag New York, Inc.

Full text available:  Pdf (418.55 KB)


Additional Information: [full citation](#), [abstract](#),

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 65, Citation

Over the past decade, significant research has been done towards developing algorithms for multidatabase systems. Most of this work assumes a multidatabase system with a single software module that ...


Keywords: Concurrency control, Database management, Distributed database management

18 [Relaxed-currency serializability for middle-tier caching and replication](#)

 Philip A. Bernstein, Alan Fekete, Hongfei Guo, Raghu Ramakrishnan, Pradeep

June 2006 **SIGMOD '06: Proceedings of the 2006 ACM SIGMOD international conference on database management systems**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (418.33 KB)

Additional Information: [full citation](#), [abstract](#),

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 120, Citation

Many applications, such as e-commerce, routinely use copies of data that are not in the database due to heuristic caching strategies used to enhance performance. This paper presents a transactional model that allows update transactions to be executed ...

Keywords: caching, database, freshness constraint, replication, serializability

19 [TOPS: a new design for transactions in publish/subscribe middleware](#)

 Yosef Shatsky, Ehud Gudes, Ehud Gudes

July 2008 **DEBS '08: Proceedings of the second international conference on database engineering systems**

Publisher: ACM

Full text available:  Pdf (257.26 KB)

Additional Information: [full citation](#), [abstract](#),


Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 103, Citation

Publish/subscribe is a common messaging paradigm used for asynchronous communication between distributed systems.

applications. Synchronous publish/subscribe middleware exist but are le
address two main performance difficulties, the first being ...

Keywords: middleware, publish-subscribe, replication, transactions

- 20 [Deploying and managing Web services: issues, solutions, and direct](#)
[Qi Yu, Xumin Liu, Athman Bouguettaya, Brahim Medjahed](#)
May 2008 **The VLDB Journal — The International Journal on Very L**
Publisher: Springer-Verlag New York, Inc.

Full text available:  Pdf (903.96 KB) Additional Information: [full citation](#), [abstract](#),

Bibliometrics: Downloads (6 Weeks): 141, Downloads (12 Months): 1858, Cit:





Web services are expected to be the key technology in enabling the nex
form of the Service Web. In this paradigm shift, Web services would be

Keywords: Interoperability, Service-oriented computing, Web service r

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